

# Thursday 16 May 2019 – Afternoon

## **AS Level Further Mathematics B (MEI)**

Y411/01 Mechanics a

**Printed Answer Booklet** 

Time allowed: 1 hour 15 minutes

#### You must have:

- Question Paper Y411/01 (inserted)
- Formulae Further Mathematics B (MEI)

#### You may use:

· a scientific or graphical calculator



Please write clea	rly in bl	ack ink.	Do no	ot writ	e in the barcodes.		
Centre number					Candidate number		
First name(s)							
Last name							

#### **INSTRUCTIONS**

- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer all the questions.
- Write your answer to each question in the space provided in the Printed Answer Booklet. If additional space is required, you should use the lined page(s) at the end of the Printed Answer Booklet. The question number(s) must be clearly shown.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.
- The acceleration due to gravity is denoted by  $gm\,s^{-2}$ . Unless otherwise instructed, when a numerical value is needed, use g=9.8.

#### **INFORMATION**

- The total number of marks for this paper is 60.
- The marks for each question are shown in brackets [ ].
- You are advised that an answer may receive no marks unless you show sufficient detail
  of the working to indicate that a correct method is used. You should communicate your
  method with correct reasoning.
- The Printed Answer Booklet consists of 12 pages. The Question Paper consists of 8 pages.

1	
<b>2</b> (a)	
2(b)	
_(5)	

<b>2</b> (c)	
2(d)	

4

3(a)	
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<b>3</b> (b)	
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<b>4</b> (a)(i)	
<b>4(a)(ii)</b>	

<b>4(b)</b>	
5(a)	

<b>5(b)</b>	

<b>6(a)</b>	
	(answer space continued on next page)

<b>6(a)</b>	(continued)
((l-)	
<b>6(b)</b>	

### 12 ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).



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